

Fig. 2

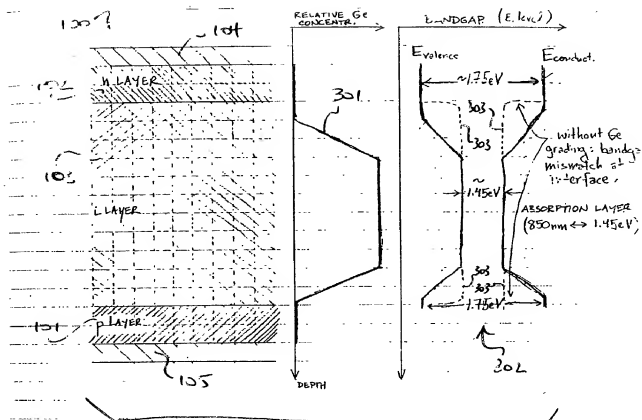
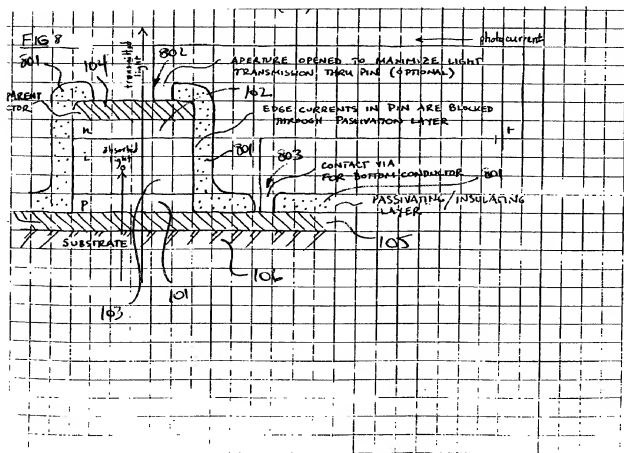
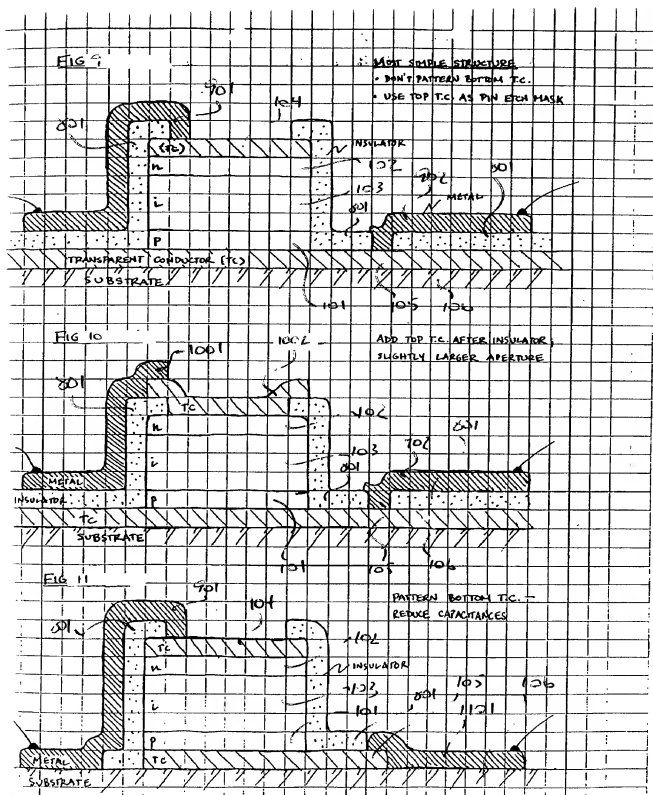
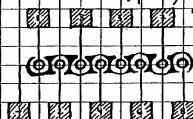
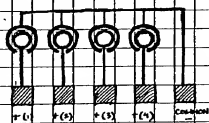
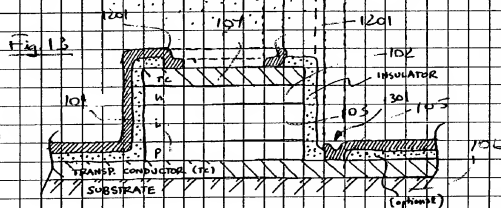
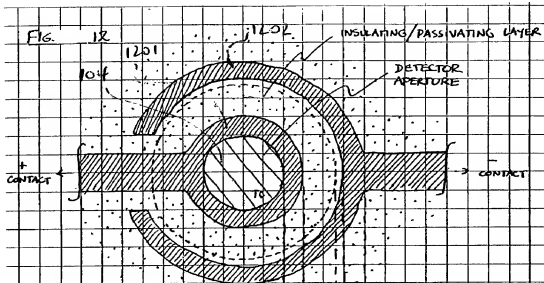
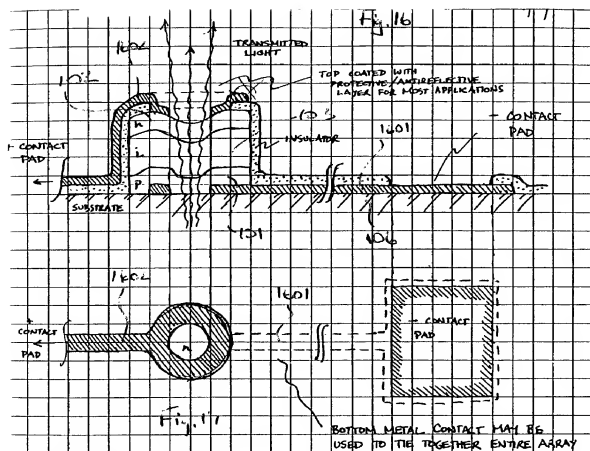


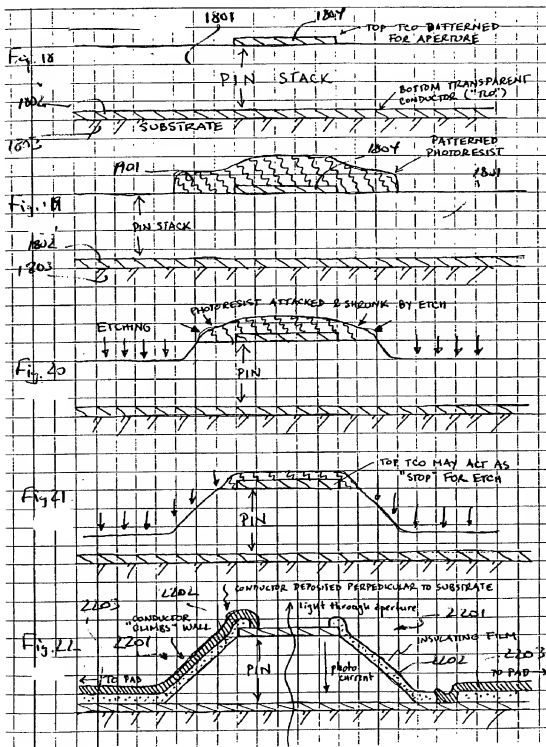
Fig. 3

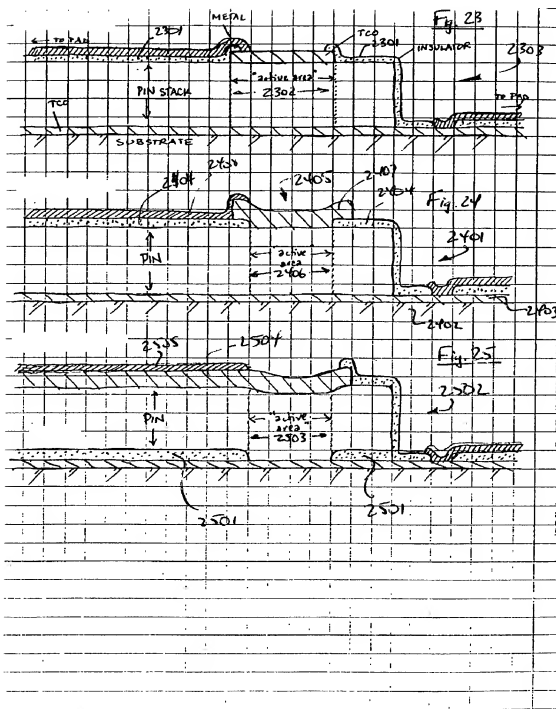


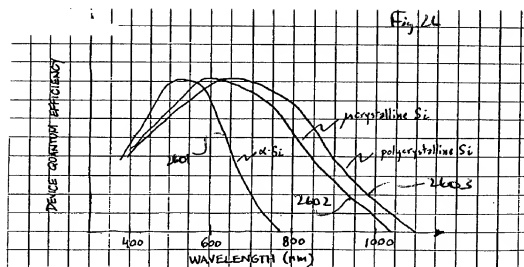


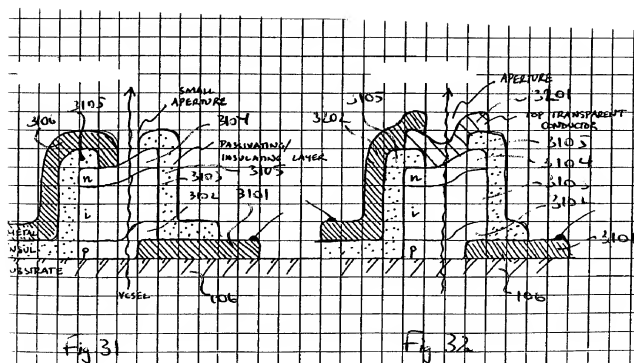


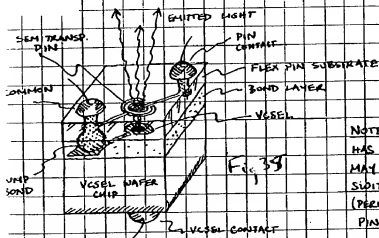
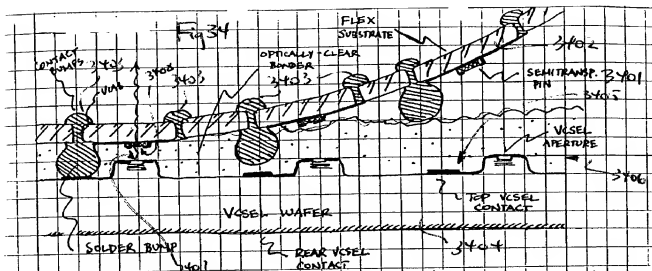




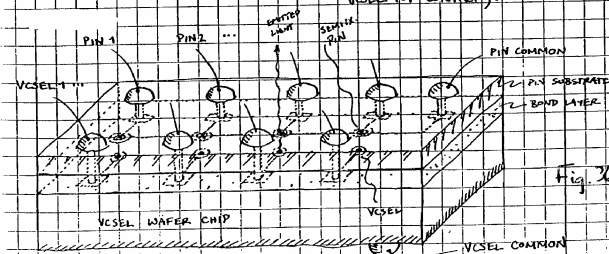


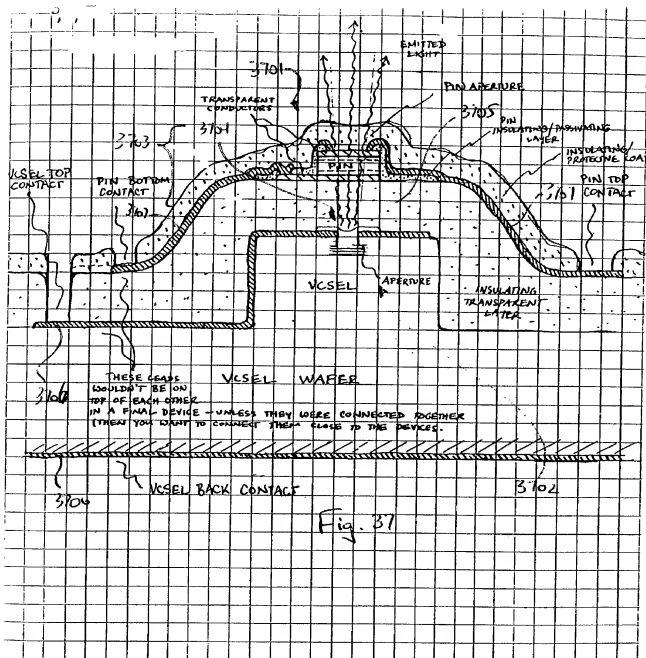




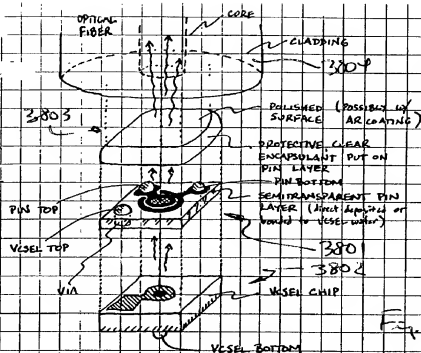


NOTE: ALTERNATIVE CONFIGURATION HAS 2 TOP CONTACTS (NO COMMON); MAY BE PREFERABLE FOR HIGH-SPD. SWITCHING.
(PERHAPS EVEN FORM HOLE THROUGH PIN SUBSTRATE & BOND LAYER TO VISEL TOP CONTACT).





COLLAPSE LAYERS TO PROVIDE SHORTER
VCSEL → FIBER PATH (as optics)



" SUM A PACKAGE WOULD ALLOW LOW-COST, DIRECT COUPLING
IN A FIBER CONNECTOR (VCSEL APERTURE $< 25 \mu\text{m}$ AND MULTIMODE
FIBER CORE $\rightarrow 50-62.5 \mu\text{m}$; VCSEL BEAM DIVERGENCE $\leq 20^\circ$, AND
PIN LAYER IS THIN).

